

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listing, of claims in the application.

**Listing of Claims:**

1 (currently amended): A method for ~~light treatment~~ compensating an emission spectrum comprising:

providing a source of light radiation having an emission spectrum, the source responsive to incident radiation, photons; the source having a first part of the emission spectrum that is independent of the temperature of the source and a second part of the emission spectrum that is dependent on the temperature of the source;

providing a detector which ~~that~~ is sensitive to the emission spectrum;

providing a filter between the source and the detector, the filter having ~~in which the light is filtered~~ with a cutoff frequency such that ~~a the~~ first part of the emission spectrum is transmitted and ~~a the~~ second part of the emission spectrum is intercepted.

~~, the detector not being photosensitive to the first part of the spectrum, and the detector being photosensitive to the second part of the spectrum.~~

2 (currently amended): A device for ~~light treatment~~ compensating an emission spectrum comprising:

means for emission of light radiation having a spectrum, the means for emission responsive to incident radiation, photons; the means for emission having a first part of the emission spectrum that is independent of the temperature of the source and a second part of the emission spectrum that is dependent on the temperature of the source;

means for detecting which is sensitive to the emission spectrum; and

means for filtering the light radiation disposed intermediate the means for emission and the means for detecting, ~~so that the means for filtering transmitting the a~~ first part of the emission spectrum ~~of the light emitted is transmitted, the means for detecting not being photosensitive to the first part of the spectrum, and a the~~ second part

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

of the light emission spectrum is intercepted. ~~the means for detecting being photosensitive to the second part of the spectrum.~~

3 (previously presented): The device according to claim 2 wherein the device is integrated with an intensifier.

4 (currently amended): The device according to claim 2 wherein the means for filtering is disposed below a light radiation intensifier on a light radiation path.

5 (previously presented): The device according to claim 4 wherein the means for filtering is mounted in contact with the intensifier.

6 (currently amended): The device according to claim 3 wherein the means for filtering is one or more layers of a material to filter the part of the light-not-desired radiation that is intercepted.

7 (previously presented): The device according to claim 4 wherein the means for filtering is mounted in contact with the intensifier.

8 (currently amended): A radiological imaging cassette comprising:  
means for emission of light radiation having an emission spectrum, the means for emission responsive to incident radiation, photons, the means for emission having a first part of the emission spectrum that is independent of the temperature of the means for emission and a second part of the emission spectrum that is dependent on the temperature of the means for emission;

means for detecting which is sensitive to the emission spectrum; and

means for filtering the light radiation disposed intermediate the means for emission and the means for detecting, the means for filtering permitting the so that a first part of the spectrum of the light radiation emitted is to be transmitted, the means for

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

~~detecting not being photosensitive to the first part of the spectrum, and a the second part of the light radiation spectrum is to be intercepted. the means for detecting being photosensitive to the second part of the spectrum.~~

9 (previously presented): The cassette according to claim 8 wherein the cassette is integrated with an intensifier.

10 (currently amended): The cassette according to claim 8 wherein the cassette contains means for filtering disposed below a light radiation intensifier on a light radiation path.

11 (previously presented): The cassette according to claim 10 wherein the means for filtering is mounted in contact with the intensifier.

12 (previously presented): The cassette according to claim 8 wherein the cassette contains an analog film.

13 (previously presented): The cassette according to claim 8 wherein the cassette contains a digital light detector.

14 (currently amended): A measuring module containing a device comprising:

means for emission of light radiation having an emission spectrum, the means for emission responsive to incident radiation, photons, the means for emission having a first part of the emission spectrum that is independent of the temperature of the means for emission and a second part of the emission spectrum that is dependent on the temperature of the means for emission;

means for detecting which is sensitive to the emission spectrum; and

Appln No. 09/826,202  
Amndt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No. 14XZ101/GEM-0085

means for filtering the light radiation disposed intermediate the means for emission and the means for detecting, ~~so that a the means for filtering transmitting the first part of the emission spectrum of the light emitted is transmitted, the means for detecting not being photosensitive to the first part of the spectrum, and a the second part of the light emission spectrum is intercepted. the means for detecting being sensitive to the second part of the spectrum.~~

15 (previously presented): The module according to claim 14 wherein the module is integrated with an intensifier.

16 (previously presented): The module according to claim 14 wherein the module contains means for filtering disposed below a light radiation intensifier on a light radiation path.

17 (previously presented): The module according to claim 16 wherein the means for filtering is mounted in contact with the intensifier.

18 (previously presented): The module according to claim 14 wherein the module contains a photomultiplier tube, the device being mounted above the photomultiplier tube.

19 (currently amended): The module according to claim 14 wherein the module contains a light radiation intensifier.

20 (currently amended): The module according to claim 18 wherein the module contains a light radiation intensifier.

21 (currently amended): The module according to claim 14 comprising means for guiding the light radiation emanating from the means for emission.

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

22 (currently amended): A radiology apparatus comprising:

means for emission of radiation having an emission spectrum, the means for emission responsive to incident ~~radiation, photons, the means for emission having a first part of the emission spectrum that is independent of the temperature of the means for emission and a second part of the emission spectrum that is dependent on the temperature of the means for emission;~~

means for detecting which is sensitive to the emission spectrum; and

means for filtering the radiation disposed intermediate the means for emission and the means for detecting, ~~so that a wherein the~~ first part of the spectrum of the radiation emitted is transmitted, ~~the means for detecting not being photosensitive to the first part of the spectrum, and a the~~ second part of the radiation spectrum is intercepted. ~~the means for detecting being photosensitive to the second part of the spectrum.~~

23 (previously presented): The radiology apparatus according to claim 22 wherein the means for detecting contains an analog film.

24 (previously presented): The radiology apparatus according to claim 22 wherein the means for detecting contains a digital radiation detector.

25 (currently amended): A radiology apparatus comprising:

means for emission of radiation having an emission spectrum, the means for emission responsive to incident ~~radiation, photons, the means for emission having a first part of the emission spectrum that is independent of the temperature of the means for emission and a second part of the emission spectrum that is dependent on the temperature of the means for emission;~~

means for detecting which is sensitive to the emission spectrum; and

a module containing a device comprising means for filtering the radiation disposed intermediate the means for emission and the means for detecting, ~~so that a~~

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No. 14XZ101/GEM-0085

~~wherein the first part of the spectrum of the radiation emitted is intercepted, the means for detecting not being photosensitive to the first part of the spectrum, and a the second part of the spectrum is intercepted. the means for detecting being photosensitive to the second part of the spectrum.~~

26 (original): The radiology apparatus according to claim 25 wherein the device is integrated with an intensifier.

27 (currently amended): The radiology apparatus according to claim 25 wherein the device containing the means for filtering is disposed below a light radiation intensifier on a radiation path.

28 (previously presented): The radiology apparatus according to claim 25 wherein the device containing the means for filtering is mounted in contact with the intensifier.

29 (currently amended): A method for radiation output comprising:  
providing an intensifier having an emission spectrum in response to incident radiation;

providing a detector, which has a sensitivity to the emission spectrum;

determining a wavelength of the emission spectrum ~~at which the detector that is independent of the temperature of the intensifier is photosensitive to or the sensitivity that is temperature dependent; and another wavelength of the emission spectrum that is dependent of temperature of the intensifier.~~

providing a filter between the intensifier and the detector, the filter having a transmission spectrum that suppresses the wavelength that ~~the detector is photosensitive to temperature dependent~~ is dependent of the temperature of the intensifier.

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

30 (currently amended): An article of manufacture comprising:

means for intensifying having an emission spectrum in response to incident radiation, the emission spectrum having a wavelength that is temperature sensitive;

means for detecting that has a sensitivity to the emission spectrum; ~~and -the emission spectrum having a wavelength at which the means for detecting is photosensitive to, and~~

means for filtering having a transmission spectrum that suppresses the wavelength that the means for ~~detecting is photosensitive to~~ intensifying is temperature sensitive.

31 (previously presented): The article according to claim 30 wherein the emission spectrum of the means for intensifying has a selected wavelength that is suppressed by the means for filtering.

32 (previously presented): The article according to claim 30 wherein the emission spectrum of the means for intensifying has a principle peak centered at around 545 nm.

33 (previously presented): The article according to claim 30 wherein the means for filtering and the means for intensifying are integrated.

34 (previously presented): The article according to claim 30 wherein the means for filtering suppresses the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying.

35 (previously presented): The article according to claim 30 wherein the means for filtering comprises material from the group consisting essentially of glass, polycarbonate or acetate, the material having a dye or organic or mineral pigment incorporated therein.

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

36 (previously presented): The article according to claim 30 wherein the means for filtering is a plurality of layers.

37 (previously presented): The article according to claim 30 wherein the means for detecting is a film.

38 (previously presented): The article according to claim 30 wherein the means for detecting is a photomultiplier tube.

39 (previously presented): The article according to claim 30 wherein the means for detecting is a charge transfer cell.

40 (previously presented) The article according to claim 30 wherein the mean for filtering is adapted to transmits radiation close to a principle peak of the emission spectrum of the means for intensifying and to intercepts radiation of wavelength corresponding to those of a secondary emission peak of a wavelength less than those of the principle emission peak.

41 (previously presented): The article according to claim 30 wherein the means for intensifying comprises a base of gadolinium oxysulfite terbium.

42 (currently amended): An article of manufacture comprising:  
means for intensifying having an emission spectrum in response to incident radiation, the means for intensifying having an emission spectrum with a wavelength that is temperature sensitive;

means for detecting that has a sensitivity to the emission spectrum, ~~the emission spectrum having a wavelength at which the means for detecting is photosensitive to;~~ and

means for filtering having a transmission spectrum that suppresses the wavelength that the means for ~~detecting is photosensitive to~~ intensifying is temperature sensitive;



Appln No. 09/826,202  
Amdr. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying; and

the means for filtering being disposed between the means for intensifying and the means for detecting.

43 (currently amended): A radiology apparatus comprising:

a source of emitted radiation;

a cassette for receiving the emitted radiation, the cassette comprising:

means for intensifying having an emission spectrum in response to the emitted radiation, the emission spectrum having a wavelength at which the means for intensifying is temperature dependent;

means for detecting that has a sensitivity to the emission spectrum, ~~the emission spectrum having a wavelength at which the means for detecting is photosensitive to;~~ and

means for filtering having a transmission spectrum that suppresses the wavelength that the means for ~~detecting is photosensitive to~~ intensifying is temperature dependent;

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying; and

the means for filtering being disposed between the means for intensifying and the means for detecting.

44 (currently amended): A radiation dose measuring module comprising:

means for intensifying having an emission spectrum in response to incident radiation, the emission spectrum having a wavelength at which the means for intensifying is temperature dependent;

means for detecting that has a sensitivity to the emission spectrum, ~~the emission spectrum at which the means for detecting is photosensitive;~~ and

means for filtering having a transmission spectrum that suppresses the wavelength that the means for ~~detecting is photosensitive to~~ intensifying is temperature dependent;

Appln No. 09/826,202  
Amtdt. Dated November /2 , 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying;

the means for filtering being disposed between the means for intensifying and the means for detecting; and

a frame supporting the means for intensifying, the means for detecting and the means for filtering,

the frame forming a guide for the radiation of the emission spectrum of the means for intensifying.

45 (currently amended): A method for radiation output comprising:  
providing an intensifier having an emission spectrum in response to incident radiation;

providing a detector, which has a sensitivity to the emission spectrum;

determining a wavelength of the emission spectrum at which the ~~detector~~ intensifier is photosensitive temperature dependent; and

providing a filter between the intensifier and the detector, the filter having a transmission spectrum that suppresses the wavelength that ~~the detector is photosensitive to~~ the intensifier is temperature dependent.

46 (currently amended): An article of manufacture comprising:  
means for intensifying having an emission spectrum in response to incident radiation;

means for detecting that has a sensitivity to the emission spectrum; and

means for filtering having a transmission spectrum that suppresses the a wavelength of the emission spectrum at which ~~that~~ the means for detecting ~~is photosensitive to~~ intensifying is temperature dependent.

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No. 14XZ101/GEM-0085

47 (previously presented):: The article according to claim 46 wherein the emission spectrum of the means for intensifying has a selected wavelength that is suppressed by the means for filtering.

48 (previously presented): The article according to claim 46 wherein the emission spectrum of the means for intensifying has a principle peak centered at around 545 nm.

49 (previously presented): The article according to claim 46 wherein the means for filtering and the means for intensifying are integrated.

50 (previously presented): The article according to claim 46 wherein the means for filtering suppresses the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying.

51 (previously presented): The article according to claim 46 wherein the means for filtering comprises material from the group consisting of glass, polycarbonate or acetate, the material having a dye or organic or mineral pigment incorporated therein.

52 (previously presented): The article according to claim 46 wherein the means for filtering is a plurality of layers.

53 (previously presented): The article according to claim 46 wherein the means for detecting is a film.

54 (previously presented): The article according to claim 46 wherein the means for detecting is a photomultiplier tube.

Appln No. 09/826,202  
Amdt. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

55 (previously presented): The article according to claim 46 wherein the means for detecting is a charge transfer cell.

56 (previously presented): The article according to claim 46 wherein the mean for filtering transmits radiation close to a principle peak of the emission spectrum of the means for intensifying and intercepts radiation of wavelength corresponding to those of a secondary emission peak of wavelength less than those of the principle emission peak.

57 (previously presented): The article according to claim 46 wherein the means for intensifying comprises a base of gadolinium oxysulfite terbium.

58 (currently amended): An article of manufacture comprising:

means for intensifying having an emission spectrum in response to incident radiation, the means for intensifying having a wavelength that is temperature dependent;

means for detecting that has a sensitivity to the emission spectrum ~~where the photosensitivity of the means for detecting is responsive to a wavelength of the emission spectrum;~~ and

means for filtering having a transmission spectrum that suppresses the wavelength of the emission spectrum that the means for ~~detecting is photosensitive to~~ intensifying is temperature dependent;

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying; and

the means for filtering being disposed between the means for intensifying and the means for detecting.

59 (currently amended): A radiology apparatus comprising:  
a source of emitted radiation;  
a cassette for receiving the emitted radiation, the cassette comprising:

Appln No. 09/826,202  
Amdt. Dated November/2 , 2004  
Reply to Office Communication of 06/03/2004  
Docket No.14XZ101/GEM-0085

means for intensifying having an emission spectrum in response to the emitted radiation, the means for intensifying emitting a wavelength that is temperature sensitive;

means for detecting that has a sensitivity to the emission spectrum ~~where the photosensitivity of the means for detecting is responsive to a wavelength of the emission spectrum;~~ and

means for filtering having a transmission spectrum that suppresses the wavelength of the emission spectrum that the means for ~~detecting is photosensitive to~~ intensifying is temperature sensitive;

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying; and

the means for filtering being disposed between the means for intensifying and the means for detecting.

60 (currently amended): A radiation dose measuring module comprising:

means for intensifying having an emission spectrum in response to incident radiation, the means for intensifying emitting a wavelength that is temperature dependent;

means for detecting that has a sensitivity to the emission spectrum ~~where the photosensitivity of the means for detecting is responsive to a wavelength of the emission spectrum;~~ and

means for filtering having a transmission spectrum that suppresses the wavelength of the emission spectrum that the means for ~~detecting is photosensitive to~~ intensifying is temperature dependent;

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying;

the means for filtering being disposed between the means for intensifying and the means for detecting; and

a frame supporting the means for intensifying, the means for detecting and the means for filtering,

Appln No. 09/826,202  
Amtd. Dated November 12, 2004  
Reply to Office Communication of 06/03/2004  
Docket No. 14XZ101/GEM-0085

the frame forming a guide for the radiation of the emission spectrum of the means  
for intensifying.